

NOTIFICATION OF ADDENDUM

ADDENDUM NO. 2

DATED 8/02/2013

Control	2343-01-036
Project	STP 2013(936)MM
Highway	FM 2444
County	NUECES

Ladies/Gentlemen:

Attached please find an addendum on the above captioned project. Included in the attachment is an addendum notification which details the changes and the respective proposal pages which were added and/or changed.

Except for new bid insert pages, it is unnecessary to return any of the pages attached.

Bid insert pages must be returned with the bid proposal submitted to the Department, unless your firm is submitting a bid using a computer print out. The computer print out must be changed to reflect the new bid item information.

Contractors and material suppliers, etc. who have previously been furnished informational proposals are not being furnished a copy of the addendum. If you have a subcontractor on the above project, please advise them of this addendum. Acknowledgment of this addendum is not requested if your company has been issued a proposal stamped "This Proposal Issued for Informational Purposes."

You are required to acknowledge receipt of this addendum on the Addendum Acknowledgement form contained in your bid proposal by placing a mark in the box next to the respective addendum.

Failure to Acknowledge receipt of this addendum in your bid proposal will result in your bid not being read.

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: STP 2013(936)MM

CONTROL: 2343-01-036

COUNTY: NUECES

LETTING: 08/06/2013

REFERENCE NO: 0802

PROPOSAL ADDENDUMS

_ PROPOSAL COVER

X BID INSERTS (SH. NO.: 5, 8, 9, 11, 12 & 14 OF 20.)

X GENERAL NOTES (SH. NO.: "J" & "K".)

_ SPEC LIST (SH. NO.:)

_ SPECIAL PROVISIONS:

ADDED:

DELETED:

_ SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

_ OTHER:

DESCRIPTION OF ABOVE CHANGES

(INCLUDING PLANS SHEET CHANGES)

PROPOSAL:

BID INSERTS -

REVISED QUANTITIES FOR BID ITEMS:

450-2155, 450-2161, 512-2008, 512-2009, 512-2026, 512-2027,
512-2044, 512-2045, 618-2018, 624-2014, 662-2052 & 662-2060.

GENERAL NOTES -

ON SPEC DATA SHEET "J", ADDED NOTES FOR ITEM 450.

ON SPEC DATA SHEET "K", TEXT SHIFTED DUE TO ADDITION OF NOTES.

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

(CONTINUED)

PLANS:

PLAN SHEET 2 (INDEX OF SHEETS) -
REPLACED PLAN SHEETS 120 & 121 (STANDARD SHEET LPCB-10)
WITH NEW PLAN SHEETS 120 & 121 (STANDARD SHEET LPCB-13).

PLAN SHEETS 8D & 8E (GENERAL NOTES) -
REVISED SHEETS AS DESCRIBED ABOVE IN THE GENERAL NOTES OF THE PROPOSAL.

PLAN SHEETS 9A & 9B (E & Q SHEETS) -
REVISED SHEETS AS DESCRIBED ABOVE IN THE BID INSERTS OF THE PROPOSAL.

PLAN SHEET 31 (SUMMARY SHEET) -
REVISED SHEETS AS DESCRIBED ABOVE IN THE BID INSERTS OF THE PROPOSAL.

PLAN SHEET 42 (SEQUENCE OF CONSTRUCTION) -
REVISED SEQUENCE OF CONSTRUCTION.

PLAN SHEETS 46 & 47 (TRAFFIC CONTROL PLANS) -
REVISED DUE TO SEQUENCE OF CONSTRUCTION CHANGE.

PLAN SHEET 120 & 121 (LPCB-13) -
REPLACED STANDARD SHEETS LPCB-10 WITH CURRENT STANDARD SHEETS LPCB-13.

PLAN SHEET 257 (ESTIMATED QUANTITIES AND BEARING SEAT ELEVATIONS) -
REVISED SHEETS AS DESCRIBED ABOVE IN THE BID INSERTS OF THE PROPOSAL.

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	100	2002	002	PREPARING ROW DOLLARS and CENTS	STA	236.000	1
	104	2001		REMOVING CONC (PAV) DOLLARS and CENTS	SY	200.000	2
	104	2009		REMOVING CONC (RIPRAP) DOLLARS and CENTS	SY	224.000	3
	110	2001		EXCAVATION (ROADWAY) DOLLARS and CENTS	CY	28,041.000	4
	110	2002		EXCAVATION (CHANNEL) DOLLARS and CENTS	CY	7,879.000	5
	132	2006		EMBANKMENT (FINAL)(DENS CONT)(TY C) DOLLARS and CENTS	CY	38,420.000	6
	162	2002		BLOCK SODDING DOLLARS and CENTS	SY	32,798.000	7
	164	2039	002	DRILL SEEDING (PERM) (URBAN) (CLAY) DOLLARS and CENTS	SY	65,333.000	8
	166	2002	001	FERTILIZER DOLLARS and CENTS	TON	3.300	9
	168	2001		VEGETATIVE WATERING DOLLARS and CENTS	MG	1,359.700	10
	247	2366	033	FL BS (CMP IN PLC)(TY A GR 5)(FNAL POS) DOLLARS and CENTS	CY	28,425.000	11

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	251	2130		REWORK BS MTL(TY B)(6"-10")(ORD COMP) DOLLARS and CENTS	SY	65,106.000	12
	260	2002	003	LIME (HYDRATED LIME (SLURRY)) DOLLARS and CENTS	TON	3,626.000	13
	260	2073	003	LIME TRT (SUBGRADE)(8") DOLLARS and CENTS	SY	183,182.000	14
	275	2001	003	CEMENT DOLLARS and CENTS	TON	743.000	15
	275	2009	003	CEMENT TREAT (NEW BASE) (8") DOLLARS and CENTS	SY	13,964.000	16
	275	2014	003	CEMENT TREAT (MX EXST MTL & NW BS)(8") DOLLARS and CENTS	SY	166,718.000	17
	310	2001		PRIME COAT (MC-30) DOLLARS and CENTS	GAL	35,636.000	18
	316	2029	016	ASPH (AC-15P OR AC-20-5TR) DOLLARS and CENTS	GAL	83,175.000	19
	316	2590	016	AGGR(TY PB GR 4 OR TY PB GR 4S)SAC-B DOLLARS and CENTS	CY	1,940.000	20
	354	2021		PLANE ASPH CONC PAV(0" TO 2") DOLLARS and CENTS	SY	757.000	21
	354	2045		PLANE ASPH CONC PAV (2") DOLLARS and CENTS	SY	26,185.000	22

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	ITEM NO	DESC CODE	S.P. NO.				
	354	2110		PLANE ASPH CONC PAV (2" TO 6") DOLLARS and CENTS	SY	65,106.000	23
	400	2005		CEM STABIL BKFL DOLLARS and CENTS	CY	1,113.000	24
	400	2006		CUT & RESTORING PAV DOLLARS and CENTS	SY	570.000	25
	401	2001		FLOWABLE BACKFILL DOLLARS and CENTS	CY	11.000	26
	402	2001		TRENCH EXCAVATION PROTECTION DOLLARS and CENTS	LF	8,990.000	27
	403	2001		TEMPORARY SPL SHORING DOLLARS and CENTS	SF	2,035.000	28
	409	2002		PRESTR CONC PIL (18 IN SQ) DOLLARS and CENTS	LF	3,840.000	29
	409	2004		PRESTR CONC PIL (24 IN SQ) DOLLARS and CENTS	LF	8,594.000	30
	416	2029	001	DRILL SHAFT (RDWY ILL POLE) (30 IN) DOLLARS and CENTS	LF	32.000	31
	416	2032	001	DRILL SHAFT (TRF SIG POLE) (36 IN) DOLLARS and CENTS	LF	88.000	32
	416	2033	001	DRILL SHAFT (TRF SIG POLE) (42 IN) DOLLARS and CENTS	LF	18.000	33

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	ITEM NO	DESC CODE	S.P. NO.				
	416	2034	001	DRILL SHAFT (TRF SIG POLE) (48 IN) DOLLARS and CENTS	LF	110.000	34
	420	2003	002	CL C CONC (ABUT) DOLLARS and CENTS	CY	161.400	35
	420	2004	002	CL C CONC (BENT) DOLLARS and CENTS	CY	478.600	36
	420	2006	002	CL C CONC (RAIL FOUNDATION) DOLLARS and CENTS	CY	312.000	37
	420	2031	002	CL S CONC (SHEAR KEY) DOLLARS and CENTS	CY	91.500	38
	420	2033	002	CL S CONC (APPR SLAB) DOLLARS and CENTS	CY	443.600	39
	420	2034	002	CL S CONC (BRIDGE SDWLK) DOLLARS and CENTS	CY	99.600	40
	420	2124	002	CL S CONC(SLAB) DOLLARS and CENTS	SF	21,450.000	41
	422	2001		REINF CONC SLAB DOLLARS and CENTS	SF	73,500.000	42
	425	2007	001	PRESTR CONC BOX BEAM (5B20) DOLLARS and CENTS	LF	4,255.240	43
	425	2064	001	PRESTR CONC GIRDER (TX28) DOLLARS and CENTS	LF	9,380.960	44

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	ITEM NO	DESC CODE	S.P. NO.				
	432	2002		RIPRAP (CONC)(5 IN) DOLLARS and CENTS	CY	768.000	45
	432	2023		RIPRAP (STONE PROTECTION)(24 IN) DOLLARS and CENTS	CY	9.000	46
	432	2048		RIPRAP (CONC)(FLUME) DOLLARS and CENTS	CY	15.000	47
	432	2066		RIPRAP (CONC)(CL B) DOLLARS and CENTS	CY	66.000	48
	442	2048	016	STRUCTURAL STEEL(MISC NON-BRIDGE) DOLLARS and CENTS	LB	1,324.000	49
	450	2025	001	RAIL (TY PR1) DOLLARS and CENTS	LF	2,148.000	50
	450	2057	001	RAIL (EXIST RAIL MODIFICATION) DOLLARS and CENTS	LF	2,099.000	51
	450	2155	001	RAIL (TY T223)(RETROFIT) DOLLARS and CENTS	LF	1,910.600	52
	450	2161	001	RAIL (TY T223) DOLLARS and CENTS	LF	3,050.400	53
	450	2166	001	RAIL (TY C223) DOLLARS and CENTS	LF	426.000	54
	454	2001	003	SEALED EXPANSION JOINT (4 IN)(SEJ-A) DOLLARS and CENTS	LF	420.000	55

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	ITEM NO	DESC CODE	S.P. NO.				
	454	2005	003	ARMOR JOINT (WITH SEAL) DOLLARS and CENTS	LF	245.000	56
	462	2001	015	CONC BOX CULV (3 FT X 2 FT) DOLLARS and CENTS	LF	733.000	57
	462	2003	015	CONC BOX CULV (4 FT X 2 FT) DOLLARS and CENTS	LF	517.000	58
	462	2004	015	CONC BOX CULV (4 FT X 3 FT) DOLLARS and CENTS	LF	2,138.000	59
	462	2005	015	CONC BOX CULV (4 FT X 4 FT) DOLLARS and CENTS	LF	2,974.000	60
	462	2006	015	CONC BOX CULV (5 FT X 2 FT) DOLLARS and CENTS	LF	308.000	61
	462	2007	015	CONC BOX CULV (5 FT X 3 FT) DOLLARS and CENTS	LF	607.000	62
	462	2010	015	CONC BOX CULV (6 FT X 3 FT) DOLLARS and CENTS	LF	2,824.000	63
	464	2003	006	RC PIPE (CL III)(18 IN) DOLLARS and CENTS	LF	332.000	64
	464	2005	006	RC PIPE (CL III)(24 IN) DOLLARS and CENTS	LF	1,536.000	65
	464	2009	006	RC PIPE (CL III)(36 IN) DOLLARS and CENTS	LF	236.000	66

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	ITEM NO	DESC CODE	S.P. NO.				
	465	2001	001	INLET (COMPL)(TY C) DOLLARS and CENTS	EA	11.000	67
	465	2005	001	MANH (COMPL)(TY M) DOLLARS and CENTS	EA	12.000	68
	465	2008	001	INLET EXT (TY E) DOLLARS and CENTS	EA	27.000	69
	465	2111	001	INLET (COMPL)(TY C)(MOD) DOLLARS and CENTS	EA	15.000	70
	465	2491	001	INLET (COMPL) (TY A) (MOD) DOLLARS and CENTS	EA	14.000	71
	467	2113	001	SET (TY I)(S= 5 FT)(HW= 3 FT)(4:1)(C) DOLLARS and CENTS	EA	6.000	72
	467	2172	001	SET (TY I)(S= 3 FT)(HW= 3 FT)(6:1)(P) DOLLARS and CENTS	EA	2.000	73
	467	2182	001	SET (TY I)(S= 5 FT)(HW= 3 FT)(6:1)(P) DOLLARS and CENTS	EA	4.000	74
	467	2227	001	SET (TY II)(36 IN)(RCP)(4:1)(C) DOLLARS and CENTS	EA	4.000	75
	467	2286	001	SET (TY II)(18 IN)(RCP)(6:1)(P) DOLLARS and CENTS	EA	14.000	76
	467	2288	001	SET (TY II)(24 IN)(RCP)(6:1)(P) DOLLARS and CENTS	EA	20.000	77

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	ITEM NO	DESC CODE	S.P. NO.				
	467	2292	001	SET (TY II)(36 IN)(RCP)(6:1)(P) DOLLARS and CENTS	EA	4.000	78
	496	2004		REMOV STR (SET) DOLLARS and CENTS	EA	74.000	79
	496	2007		REMOV STR (PIPE) DOLLARS and CENTS	LF	1,162.000	80
	496	2008		REMOV STR (BOX CULVERT) DOLLARS and CENTS	LF	504.000	81
	496	2009		REMOV STR (BRIDGE 0-99 FT LENGTH) DOLLARS and CENTS	EA	1.000	82
	500	2001	011	MOBILIZATION DOLLARS and CENTS	LS	1.000	83
	502	2001	055	BARRICADES, SIGNS AND TRAFFIC HAN- DLING DOLLARS and CENTS	MO	30.000	84
	502	2047	055	OFF-DUTY POLICE OFFICER DOLLARS and CENTS	HR	128.000	85
	508	2002		CONSTRUCTING DETOURS DOLLARS and CENTS	SY	23,718.000	86
	512	2008	002	PORT CTB (FUR & INST)(LOW PROF)(TY 1) DOLLARS and CENTS	LF	4,720.000	87

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	ITEM NO	DESC CODE	S.P. NO.				
	512	2009	002	PORT CTB (FUR & INST)(LOW PROF)(TY 2) DOLLARS and CENTS	LF	240.000	88
	512	2026	002	PORT CTB (MOVE)(LOW PROF)(TY 1) DOLLARS and CENTS	LF	5,600.000	89
	512	2027	002	PORT CTB (MOVE)(LOW PROF)(TY 2) DOLLARS and CENTS	LF	160.000	90
	512	2044	002	PORT CTB (REMOVE)(LOW PROF)(TY 1) DOLLARS and CENTS	LF	4,720.000	91
	512	2045	002	PORT CTB (REMOVE)(LOW PROF)(TY 2) DOLLARS and CENTS	LF	240.000	92
	512	2048	002	PORT CTB (FUR & INST)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	12,450.000	93
	512	2050	002	PORT CTB (MOVE)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	11,880.000	94
	512	2052	002	PORT CTB (REMOVE)(F-SHAPE)(TY 1) DOLLARS and CENTS	LF	12,450.000	95
	514	2015	002	PERM CONC TRF BARR (F-SHAPE)(TY 1) DOLLARS and CENTS	LF	1,290.000	96
	529	2006		CONC CURB (MONO) (TY II) DOLLARS and CENTS	LF	884.000	97
	529	2010		CONC CURB AND GUTTER (TY II)(REINF) DOLLARS and CENTS	LF	16,106.000	98

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	ITEM NO	DESC CODE	S.P. NO.				
	529	2016		CONC CURB(TY F) DOLLARS and CENTS	LF	3,156.000	99
	529	2018		CONC CURB(MONO)(TY II)(SPECIAL) DOLLARS and CENTS	LF	2,212.000	100
	530	2010	006	DRIVEWAYS (CONC) DOLLARS and CENTS	SY	330.000	101
	530	2011	006	DRIVEWAYS (ACP) DOLLARS and CENTS	SY	384.000	102
	530	2017	006	TURNOUTS (ACP) DOLLARS and CENTS	SY	2,224.000	103
	531	2024		CONC SIDEWALK (5") DOLLARS and CENTS	SY	11,646.000	104
	531	2054		CURB RAMPS DOLLARS and CENTS	SY	367.500	105
	540	2001	031	MTL W-BEAM GD FEN (TIM POST) DOLLARS and CENTS	LF	200.000	106
	540	2011	031	MTL BEAM GD FEN TRANS (THRIE-BEAM) DOLLARS and CENTS	EA	4.000	107
	542	2001		REMOVING METAL BEAM GUARD FENCE DOLLARS and CENTS	LF	300.000	108
	542	2002		REMOVING TERMINAL ANCHOR SECTION DOLLARS and CENTS	EA	4.000	109

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	ITEM NO	DESC CODE	S.P. NO.				
	544	2001		GUARDRAIL END TREATMENT (INSTALL) DOLLARS and CENTS	EA	4.000	110
	545	2001		CRASH CUSH ATTEN (INSTL) DOLLARS and CENTS	EA	6.000	111
	545	2049		CRASH CUSH ATTEN (INSTL)(WORK ZONE) DOLLARS and CENTS	EA	14.000	112
	545	2050		CRASH CUSH ATTEN(MOV&RESET)(WORK ZONE) DOLLARS and CENTS	EA	10.000	113
	545	2051		CRASH CUSH ATTEN (REMOVE)(WORK ZONE) DOLLARS and CENTS	EA	14.000	114
	560	2004	001	MAILBOX INSTALL-S (WC-POST) TY 3 FND DOLLARS and CENTS	EA	1.000	115
	610	2025	015	INS RD IL AM (TY SA) 40T-8 (.25 KW)S DOLLARS and CENTS	EA	4.000	116
	618	2018		CONDT (PVC) (SCHD 40) (2") DOLLARS and CENTS	LF	1,988.000	117
	618	2019		CONDT (PVC) (SCHD 40) (2") (BORE) DOLLARS and CENTS	LF	725.000	118
	618	2024		CONDT (PVC) (SCHD 40) (4") DOLLARS and CENTS	LF	407.000	119

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	ITEM NO	DESC CODE	S.P. NO.				
	618	2025		CONDT (PVC) (SCHD 40) (4") (BORE) DOLLARS and CENTS	LF	838.000	120
	620	2009	001	ELEC CONDR (NO. 6) BARE DOLLARS and CENTS	LF	353.000	121
	620	2010	001	ELEC CONDR (NO. 6) INSULATED DOLLARS and CENTS	LF	706.000	122
	620	2012	001	ELEC CONDR (NO. 8) INSULATED DOLLARS and CENTS	LF	5,635.000	123
	624	2014	014	GROUND BOX TY D (162922) W/APRON DOLLARS and CENTS	EA	24.000	124
	628	2066	003	ELC SRV TY D 120/240 060 (NS)GS(N)TS(O) DOLLARS and CENTS	EA	1.000	125
	628	2158	003	REMOVE ELECTRICAL SERVICES DOLLARS and CENTS	EA	1.000	126
	628	2271	003	ELC SRV TY D 120/240 060 (NS)SS(E)GC(O) DOLLARS and CENTS	EA	2.000	127
	644	2001		IN SM RD SN SUP&AM TY10BWG(1)SA(P) DOLLARS and CENTS	EA	23.000	128
	644	2004		IN SM RD SN SUP&AM TY10BWG(1)SA(T) DOLLARS and CENTS	EA	53.000	129
	644	2006		IN SM RD SN SUP&AM TY10BWG(1)SA(U) DOLLARS and CENTS	EA	1.000	130

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	ITEM NO	DESC CODE	S.P. NO.				
	644	2028		IN SM RD SN SUP&AM TYS80(1)SA(U-1EXT) DOLLARS and CENTS	EA	4.000	131
	644	2030		IN SM RD SN SUP&AM TYS80(1)SA(U-BM) DOLLARS and CENTS	EA	4.000	132
	644	2058		RELOCATE SM RD SN SUP & AM TY S80 DOLLARS and CENTS	EA	62.000	133
	644	2060		REMOVE SM RD SN SUP & AM DOLLARS and CENTS	EA	58.000	134
	647	2007		REMOVE LRSA (FOUNDATION)(24 IN) DOLLARS and CENTS	EA	9.000	135
	658	2258		INSTL DEL ASSM (D-SW)SZ (TYC)CTB DOLLARS and CENTS	EA	23.000	136
	658	2337		INSTL OM ASSM (OM-2Z)(FLX)GND(BI) DOLLARS and CENTS	EA	4.000	137
	658	2368		INSTL DEL ASSM(D-DW)SZ1(TYC)CTB(BI) DOLLARS and CENTS	EA	9.000	138
	662	2001		WK ZN PAV MRK NON-REMOV (W) 4" (BRK) DOLLARS and CENTS	LF	9,107.000	139
	662	2004		WK ZN PAV MRK NON-REMOV (W) 4" (SLD) DOLLARS and CENTS	LF	39,126.000	140
	662	2012		WK ZN PAV MRK NON-REMOV (W) 8" (SLD) DOLLARS and CENTS	LF	7,891.000	141

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	ITEM NO	DESC CODE	S.P. NO.				
	662	2016		WK ZN PAV MRK NON-REMOV (W) 24" (SLD) DOLLARS and CENTS	LF	332.000	142
	662	2030		WK ZN PAV MRK NON-REMOV (Y) 4" (BRK) DOLLARS and CENTS	LF	6,378.000	143
	662	2032		WK ZN PAV MRK NON-REMOV (Y) 4" (SLD) DOLLARS and CENTS	LF	54,001.000	144
	662	2052		WK ZN PAV MRK REMOV (REFL) TY I-C DOLLARS and CENTS	EA	4,297.000	145
	662	2054		WK ZN PAV MRK REMOV (REFL) TY II-A-A DOLLARS and CENTS	EA	5,467.000	146
	662	2060		WK ZN PAV MRK REMOV (TRAF BTN) TY W DOLLARS and CENTS	EA	13,435.000	147
	662	2062		WK ZN PAV MRK REMOV (TRAF BTN) TY Y DOLLARS and CENTS	EA	17,072.000	148
	662	2079		WK ZN PAV MRK REMOV (W) 24" (SLD) DOLLARS and CENTS	LF	182.000	149
	662	2084		WK ZN PAV MRK REMOV (W) (ARROW) DOLLARS and CENTS	EA	14.000	150
	662	2094		WK ZN PAV MRK REMOV (W) (WORD) DOLLARS and CENTS	EA	14.000	151
	662	2113		WK ZN PAV MRK SHT TERM (TAB) TY W DOLLARS and CENTS	EA	5,462.000	152

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	ITEM NO	DESC CODE	S.P. NO.				
	662	2115		WK ZN PAV MRK SHT TERM (TAB) TY Y-2 DOLLARS and CENTS	EA	9,228.000	153
	666	2005		REFL PAV MRK TY I (W) 4" (DOT)(090MIL) DOLLARS and CENTS	LF	25.000	154
	666	2035		REFL PAV MRK TY I (W) 8" (SLD)(090MIL) DOLLARS and CENTS	LF	7,891.000	155
	666	2041		REFL PAV MRK TY I (W) 12"(SLD)(090MIL) DOLLARS and CENTS	LF	1,178.000	156
	668	2105		PREFAB PAV MRK TY C (W) (24") (SLD) DOLLARS and CENTS	LF	332.000	157
	668	2106		PREFAB PAV MRK TY C (W) (ARROW) DOLLARS and CENTS	EA	24.000	158
	668	2116		PREFAB PAV MRK TY C (W) (WORD) DOLLARS and CENTS	EA	22.000	159
	672	2015	034	REFL PAV MRKR TY II-A-A DOLLARS and CENTS	EA	1,602.000	160
	672	2017	034	REFL PAV MRKR TY II-C-R DOLLARS and CENTS	EA	882.000	161
	677	2001		ELIM EXT PAV MRK & MRKS (4") DOLLARS and CENTS	LF	45,165.000	162
	677	2003		ELIM EXT PAV MRK & MRKS (8") DOLLARS and CENTS	LF	2,180.000	163

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	ITEM NO	DESC CODE	S.P. NO.				
	677	2005		ELIM EXT PAV MRK & MRKS (12") DOLLARS and CENTS	LF	1,055.000	164
	680	2002		INSTALL HWY TRF SIG (ISOLATED) DOLLARS and CENTS	EA	3.000	165
	682	2001	003	BACK PLATE (12 IN) (3 SEC) DOLLARS and CENTS	EA	31.000	166
	682	2002	003	BACK PLATE (12 IN) (4 SEC) DOLLARS and CENTS	EA	6.000	167
	682	2012	003	LOUVER (12 IN) (ADJUSTABLE) DOLLARS and CENTS	EA	18.000	168
	682	2022	003	VEH SIG SEC (12 IN) LED (GRN ARW) DOLLARS and CENTS	EA	9.000	169
	682	2023	003	VEH SIG SEC (12 IN) LED (GRN) DOLLARS and CENTS	EA	28.000	170
	682	2024	003	VEH SIG SEC (12 IN) LED (YEL ARW) DOLLARS and CENTS	EA	15.000	171
	682	2025	003	VEH SIG SEC (12 IN) LED (YEL) DOLLARS and CENTS	EA	28.000	172
	682	2026	003	VEH SIG SEC (12 IN) LED (RED ARW) DOLLARS and CENTS	EA	6.000	173
	682	2027	003	VEH SIG SEC (12 IN) LED (RED) DOLLARS and CENTS	EA	31.000	174

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	682	2066	003	PED SIG SEC (12 IN) LED (COUNTDOWN) DOLLARS and CENTS	EA	10.000	175
	684	2035		TRF SIG CBL (TY A) (14 AWG) (9 CONDR) DOLLARS and CENTS	LF	5,520.000	176
	685	2003	014	REMOVE RDSD FLASH BEACON ASSEMBLY DOLLARS and CENTS	EA	6.000	177
	685	2005	014	RLCT RDSD FLASH BEACON ASSM(SOLAR PWRD) DOLLARS and CENTS	EA	4.000	178
	686	2029		INS TRF SIG PL AM(S) 1 ARM (28') LUM DOLLARS and CENTS	EA	1.000	179
	686	2037		INS TRF SIG PL AM(S) 1 ARM (36') LUM DOLLARS and CENTS	EA	2.000	180
	686	2039		INS TRF SIG PL AM(S) 1 ARM (40') DOLLARS and CENTS	EA	1.000	181
	686	2051		INS TRF SIG PL AM(S) 1 ARM (50') DOLLARS and CENTS	EA	1.000	182
	686	2055		INS TRF SIG PL AM(S) 1 ARM (55') DOLLARS and CENTS	EA	1.000	183
	686	2057		INS TRF SIG PL AM(S) 1 ARM (55') LUM DOLLARS and CENTS	EA	2.000	184

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	686	2061		INS TRF SIG PL AM(S) 1 ARM (60') LUM DOLLARS and CENTS	EA	2.000	185
	686	2119		INS TRF SIG PL AM(S) 2 ARM (36-32') DOLLARS and CENTS	EA	1.000	186
	686	2139		INS TRF SIG PL AM(S) 2 ARM (40-32') DOLLARS and CENTS	EA	1.000	187
	687	2001	004	PED POLE ASSEMBLY DOLLARS and CENTS	EA	8.000	188
	1122	2005	001	ROCK FILTER DAMS (INSTALL) (TY 1) DOLLARS and CENTS	CY	21.500	189
	1122	2007	001	ROCK FILTER DAMS (INSTALL) (TY 3) DOLLARS and CENTS	CY	80.000	190
	1122	2010	001	ROCK FILTER DAMS (REMOVE) DOLLARS and CENTS	CY	101.500	191
	1122	2016	001	CONSTRUCTION EXITS (INSTALL) (TY 1) DOLLARS and CENTS	SY	78.000	192
	1122	2019	001	CONSTRUCTION EXITS (REMOVE) DOLLARS and CENTS	SY	78.000	193
	1122	2037	001	TEMPORARY SEDIMENT CONTROL FENCE INSTLL DOLLARS and CENTS	LF	5,046.000	194

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	1122	2048	001	BIOGRD EROSN CONT LOGS (12" DIA)INSTALL DOLLARS CENTS and	LF	531.000	195
	1122	2049	001	BIOGRD EROSN CONT LOGS (18" DIA)INSTALL DOLLARS CENTS and	LF	258.000	196
	1122	2056	001	BIODEGRADBLE EROSION CONTROL LOGS REMOV DOLLARS CENTS and	LF	789.000	197
	1122	2057	001	TEMPORARY SEDIMENT CONTROL FENCE REMOVE DOLLARS CENTS and	LF	5,046.000	198
	3268	2048		D-GR HMA TY-D SAC-B PG76-22 DOLLARS CENTS and	TON	13,757.000	199
	3268	2089		D-GR HMA TY-B SAC-B PG 70-22 DOLLARS CENTS and	TON	49,457.000	200
	6007	2001		REMOVING TRAFFIC SIGNALS DOLLARS CENTS and	EA	1.000	201
	6834	2001	002	PORTABLE CHANGEABLE MESSAGE SIGN DOLLARS CENTS and	DAY	796.000	202
	8251	2002	005	RE PM W/RET REQ TY I(W)4"(BRK)(090MIL) DOLLARS CENTS and	LF	9,107.000	203

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	8251	2005	005	RE PM W/RET REQ TY I(W)4"(SLD)(090MIL) DOLLARS and CENTS	LF	39,126.000	204
	8251	2014	005	RE PM W/RET REQ TY I(Y)4"(BRK)(090MIL) DOLLARS and CENTS	LF	6,378.000	205
	8251	2017	005	RE PM W/RET REQ TY I(Y)4"(SLD)(090MIL) DOLLARS and CENTS	LF	54,001.000	206

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GENERAL NOTES:

Find, for your information and convenience, tools such as forms, software, materials, and various other information provided by the Department at <http://www.dot.state.tx.us/business/>. Please note that these tools are updated periodically and your attention is directed to the latest edition.

In the event of a called evacuation, emergencies, impending adverse weather or as directed, do not perform any work without written authorization. The District reserves the right to suspend all work in support of evacuations or emergencies occurring from other parts of the state. Any work performed, other than work directed by the Department, is unauthorized work in accordance with Item 5.

Sweep, clean and remove any construction waste, surplus materials or debris from the roadway and right of way at the end of each day unless otherwise approved. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Asphalt application season will be established in accordance with Item 316.4.D Adverse Weather Conditions or as directed by the Engineer.

Cut existing pavement using a saw or other approved method to ensure a neat transverse and/or longitudinal line to assure a smooth tie-in with new pavement. Cut to a minimum depth of the final lift thickness. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Promptly pick up and properly dispose of paper and other materials used for pavement joints.

Stencil the National Bridge Inventory (NBI) number on each bridge and bridge class culvert. Use 3" letters or numbers. Use stain and color as approved. Paint will not be permitted. Locate the NBI number on the outside beam immediately adjacent to the abutment on the downstream end, on the outside headwall upper right-hand corner, or as directed. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

All pavement markings shall be in accordance with the Texas MUTCD.

Construction activities resulting in permanent impacts (fill of soil, concrete, etc.) to wetlands are not permitted. Wetland areas that may be temporarily impacted, as identified in plans or by Corpus Christi district TxDOT ENV personnel, may not exceed the amount accounted for in the USACE permit (SWG-2013-00302).

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Prior to construction TxDOT personnel must verify the boundary of temporary impacts delineated by the construction contractor. Permitted areas within wetlands, identified for temporary impacts, must use matting or approved equivalent to utilize and access the identified space. Temporary wetland impacts were calculated based on providing temporary work areas 14 feet from the edge of proposed bridge on each side of the roadway. Contractor shall coordinate with Corpus Christi district TxDOT ENV personnel to restore temporarily impacted wetland areas to their original condition or to the satisfaction of the Corpus Christi district TxDOT ENV personnel in the event that restoration to original condition cannot reasonably be obtained. Contact Christopher Amy at 361-808-2376.

ITEM 2

It is recommended that prospective bidders examine the specified work locations with the Engineer to view the nature of the work, the need for close coordination with the various utilities, traffic control considerations, and other factors influencing the prosecution of the work.

ITEM 5

Field verify all dimensions and notify Engineer prior to initiating any work.

Verify the locations of utilities, underground or overhead, shown within the limits of the right-of-way. Adhere to OSHA Standards when working within the vicinity of overhead power lines. Coordinate with the utility companies and notify the Engineer of any possible conflicts. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Notify the Engineer immediately of utility conflicts in accordance with Item 5.5.B. Refer to Item 4.3 for consideration of differing site conditions.

Prospective bidders may borrow reproducible earthwork cross-sections from the Area Engineer's office for making copies with a minimum twenty-four (24) hour notice.

The responsibility for the construction surveying on this contract will be in accordance with Item 5.6.A, "Method A".

Establish and mark the location of existing standard pavement markings including but not limited to edge lines, transitions, passing and no passing zones, gore areas, etc. (Use with Method C for Item 5.6.C)

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ITEM 6

Inspection at Precast Concrete Fabrication Plants is as follows: TxDOT's Materials and Pavements Section will inspect any precast units at commercial fabrication yards and staging areas. The Area Engineer will inspect all other precast units.

For Department-furnished material, contact the Engineer or his designated representative to request material a minimum of one workday prior to pick up. Load material with contract personnel. Materials are to be stored in a safe location outside TXDOT property or right-of-way, {unless otherwise approved.} Use material furnished by the Department only on the project(s) intended. Return any unused material as soon as possible.

ITEM 7

The work performed for Item 7.7, "Public Safety and Convenience" will not be measured or paid for directly, but will be subsidiary to pertinent Items.

When working at street, farm-to-market, state highway, and county road intersections, schedule work to minimize intersection closures. During nonworking hours, all public road intersections will be open to the traveling public.

The total disturbed area for this project is 45.11 acres. The disturbed area in this project, all project locations in the Contract, and Contractor project specific locations (PSLs), within 1 mile of the project limits, for the Contract will further establish the authorization requirements for storm water discharges. The Department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction activities shown on the plans. The Contractor is to obtain any required authorization from the TCEQ for any Contractor PSLs for construction support activities on or off ROW. When the total area disturbed for all projects in the Contract and PSLs within 1 mile of the project limits exceeds 5 acres, provide a copy of the Contractor NOI for PSLs on the ROW to the Engineer.

Establish uniform perennial vegetative coverage with a density of at least 70% of the native background vegetative cover to achieve final stabilization.

Comply with the Texas Aggregate Quarry and Pit Safety Act for waste areas or material source areas resulting from this project.

Working day charges will begin 180 calendar days after the date of the written authorization to begin work, or the first day of construction activity if the work is initiated within the 180 day period.

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ITEM 8

Prepare the progress schedule using the Critical Path Method (CPM). Submit (2) two 11" x 17" hard copies and an electronic file of the original or updated progress schedule. Submit the original progress schedule seven (7) days before the Preconstruction Conference.

Submit an updated progress schedule as directed to show proposed major changes, changes affecting compliance with the contract requirements, or changes affecting the critical path/controlling item of work.

Working days will be computed and charge in accordance with Article 8.3.A.4, "Standard Workweek".

Work above traffic is not allowed.

Lane closures are not permitted Monday through Friday before 9 AM or after 4 PM unless approved.

Nighttime work is allowable between the hours of 9 PM and 6 AM.

Notify the Engineer at least 48 hours in advance of weekend or nighttime work.

ITEM 9

Submit the approved forms to request compensation for material-on-hand (MOH) at least three (3) working days prior to the end of the month. Include any requests from subcontractors, suppliers, or fabricators.

ITEM 100

Coordinate all right of way preparation activities with the project's Storm Water Pollution Prevention Plan (SWP3) and Environmental Permit Issues, and Commitments Sheet (EPIC) or as approved.

Prepare the right of way from STA 0+00(A) to STA 176+00(A), STA 568+45(D) to STA 594+70(D), and STA 0+00(C) to STA 14+75(C). Remove and dispose of all obstructions shown and not specifically shown in the plans that are visible.

Remove any trees/brush as directed by the Engineer. This will be considered subsidiary to Item 100.

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Prune trees and shrubs as directed. Use accepted pruning practices in accordance with Item 192 and as defined by the National Arborist Association. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

ITEM 104

During removal of existing concrete pavement, extruding rebar will be trimmed down to within a 1" maximum allowable exposure. This will be subsidiary to Item 104.

The State will retain possession of concrete pavement free of steel and crushed to no more than 24 inches in size and delivered to the southernmost limits of the SH 286 project (south of FM 43, Corpus Christi, TX 78413) at the ROW corner as directed by the Engineer.

ITEM 110

For earth cuts, manipulate and compact subgrade in accordance with Item 132.3.D.2, "Compaction Methods, Density Control".

ITEM 132

Use embankment material with a plasticity index (PI) ranging from 10 to 40. Blend or treat approved materials to achieve the desired PI and pulverize the material so that 100% passes the 3 inch sieve. Retest materials as borrow sources change or when the material changes significantly. Notify the Engineer of the proposed material sources and of changes to material sources. The Engineer may sample and test project materials at any time before compaction throughout the duration of the project to assure specification compliance. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Obtain approval to incorporate existing salvaged asphaltic surface and flexible base materials in the surface layer. If approved, incorporate existing materials no larger than 2 inches in the surface layer. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

The estimated quantities for embankments adjacent to culverts and bridges were calculated using the average-end-area method.

ITEM 162

Furnish and place Bermuda block sod.

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ITEM 164

Restore and seed areas not shown in the plans disturbed by the Contractor's operations. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Notify the Engineer of the unavailability of any seed mix. Make changes to the seed mix as approved.

Use a tacking agent of 50% SS-1 and 50% water and apply the agent at a rate of 0.10 gal/sy or as directed. A biodegradable tacking agent may be used in lieu of the SS-1 tacking agent in accordance with the manufacturer's recommendations when approved. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

The Contractor shall schedule the work in such a manner so that seeding may be performed as soon as possible. This will require the Contractor to mobilize multiple times during the duration of the project.

ITEM 166

Fertilize all areas of the project to be seeded or sodded. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Furnish and apply fertilizer with analysis of 16-8-8 at a rate of 375 bulk pounds per acre.

ITEM 168

Distribute water to only those areas shown in the plans or as directed. Excessive overspray will not be permitted.

Water all areas of the project to be seeded or sodded every two (2) days for 90 days or as directed. Apply water in a manner to ensure adequate moisture but not to erode the soil in-place. During periods of adequate moisture, mechanical watering may not be required as approved. Upon final stabilization, the Engineer may require to continue watering as specified for a period not to exceed 30 days.

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The Basis of Estimate below establishes the approximate quantity of water required to complete the 90-day watering cycle:

Rate	Water(Gal/Acre/Month)	Area(Acre)	Total(Gallons/Acre/3 months)
0.25 inch/week	26,000	1	78,000

ITEM 247

The Engineer may accept material during stockpile operations, from completed stockpiles, or windrows. The Engineer will select any of these locations or any combination thereof with the provision that at least one out of ten consecutive samples will be taken at the project site.

When requested, stake with blue tops, at 100-foot intervals, the lines and grade shown in the plans.

There will be no minimum PI requirement for this project.

ITEM 275

Cement and/or asphalt stabilized base may be encountered in the existing pavement structure. Pulverize or scarify the existing material after shaping so that 100% passes a 2-1/2 inch sieve.

Use a mechanical mixer to mix the cement with the existing base material.

The three (3) day curing period is waived for roadways required to be opened to traffic the same day.

Prime flexible base by applying a bituminous material at the rates of application shown for Item 310, "Prime Coat".

ITEM 302

Provide aggregates with a minimum surface aggregate classification (SAC) of "B" unless otherwise shown. The SAC for sources on the Department's Aggregate Quality Monitoring Program (AQMP) is listed in the Department's Bituminous Rated Source Quality Catalogue (BRSQC). SAC requirements apply to aggregates used on all final roadway surfaces, including shoulders.

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When using asphalt emulsion, use a precoat material for the aggregates as approved.

ITEM 310

Use MC-30 at a rate of 0.20 gallons per square yard or as directed.

ITEM 316

Clean aggregates showing signs of excessive dust from the stockpile or while handling during construction. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Do not place surface treatment on exposed concrete structures unless directed.

Furnish a distributor equipped with a hand hose in working condition.

Material rates shown are for estimating purposes only. Adjust actual rates based on the material used, the existing condition and type of roadway surface, and as approved. When using asphalt emulsion, a minimum 24-hour curing period is required before placing any subsequent asphalt courses.

Stockpiling of aggregates may begin after the execution of the Authorization to Begin Work or issuance of the work order.

Remove vegetation and blade pavement edges prior to surfacing operations. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Broom and clean sealed sections of roadway and all adjacent paved surfaces, including the gutter line, of any surplus aggregate before opening to traffic or as directed.

ITEM 320

Provide the type of windrow pick-up equipment for approval prior to beginning paving operations.

Use of motor grader will not be permitted unless approved.

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ITEM 354

Reclaimable asphalt material (R.A.P.) may be retained only if incorporated into the project. Incorporate the R.A.P. into the pavement mix design, into the backfill for pavement edges, into temporary structures, or as approved. Any excess R.A.P. will be stockpiled at one of the following locations or as directed by the Engineer:

At the intersection of SH 44 and CR 67 (Robstown, TX)

ITEM 400

Compact each layer to meet the density and consolidation of the adjacent undisturbed material.

Use cement-stabilized backfill for culvert and storm drains located beneath the pavement structure.

ITEM 420

Set a Department-furnished brass disk on all bridge abutments and culvert headwalls as directed. The work performed will not be measured or paid directly, but will be subsidiary to pertinent Items.

Promptly apply an ordinary surface finish to all concrete surfaces once meeting curing requirements.

ITEM 421

Provide strength-testing equipment in accordance with the Contract controlling test(s).

Furnish a 10 FT X 10 FT curing facility for this project with an AC and printer as approved by the Engineer.

Furnish test molds for cylindrical concrete specimens measuring six (6") inches in diameter by twelve (12") inches in length.

No air entrainment in concrete is required.

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ITEM 427

Provide a rub finish for Surface Area II unless otherwise directed.

ITEM 432

Saw cut the existing riprap to ensure a neat transverse and/or longitudinal line to assure a smooth tie-in with new riprap. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Use Cap Option C for the joint between the face of the abutment and riprap as shown on the standard sheet "Concrete Riprap (CRR)".

Reinforce concrete riprap with 4 x 4 – W2.9 x W2.9 welded wire fabric or with No. 3 reinforcing bars spaced at a maximum of 12 inch in each direction.

ITEM 440

Plastic chairs will be used on all exposed surfaces.

ITEM 450

Prior to coring for retrofit rail anchorage placement, Contractor shall use an approved method of reinforcement detection to avoid damaging the existing reinforcement in the bridge slab.

Existing rail modification shall consist of converting existing T202 railing to C223 rail equivalent. This shall include attaching the top 2 ½" std pipe rail and lower 1 ½" std pipe shown on the C223 standard using a method approved by the Engineer.

ITEM 462

Class C bedding will be required on concrete box culverts and storm drains.

Use cold-applied, plastic asphalt sewer joint compound for all joints. Provide sandproof tape for all pipe placed in cohesionless backfill material as approved, or provide gaskets that conform to Item 464.2.I.3.

The work performed for concrete collars will not be measured or paid for directly, but will be subsidiary to pertinent Items.

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ITEM 464

The work performed for concrete collars will not be measured or paid for directly, but will be subsidiary to pertinent Items.

ITEM 465

The work performed for concrete collars will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Shape and route floor inverts passing through the manhole or inlet with Class "B" concrete. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Precast inlets/manholes will be allowed except as noted on drainage summary sheets or as approved by the Engineer. If Contractor elects to use precast inlets/manholes, provide enough reinforcement for adjustments as required in the field.

Precast tops and precast Ty E extensions will not be permitted.

Inlet extensions will require 6"x 6" support posts from top of inlet to gutter.

Riprap aprons will be required on all Ty H inlets and will be included in the unit bid price for the inlet.

Inlets and manholes in the sidewalk will be the same width as the sidewalk.

The Contractor and the Engineer will field verify all inlets and manhole heights before any tops are poured. Adjustments will be made to inlets/manholes in the field as determined by the Engineer. All materials and labor will be subsidiary to Item 465.

If the Contractor elects to use precast inlets or manholes, the Contractor will allow enough rebar for inlet/manhole height adjustments in the field. Additional concrete, rebar, labor, and miscellaneous items will be subsidiary to Item 465.

If the Contractor purchases precast inlets or manholes and later decides to use cast-in-place inlets or manholes for any reason, the Contractor will only be compensated for one inlet or manhole at each location.

If Contractor elects to use cast-in-place junction boxes, Contractor shall provide a ring and cover (Ty H) as shown in manhole standard (CRP-MH-M), unless determined by the Engineer. Tack weld ring and cover after framework has been removed. Reinforcement, dimensions, and specifications will conform to manhole (Ty M). All materials and labor to be incorporated into unit bid price for "Junction Box (Ty M)".

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ITEM 467

Place safety end treatments with a uniform slope.

Provide 5/8" x 6" galvanized hooked bolts with 2 hex nuts at a spacing not to exceed 24 inches center to center for metal pipes with riprap sloped headwalls. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Reinforce concrete riprap with 4 x 4 – W2.9 x W2.9 welded wire fabric or with No. 3 reinforcing bars spaced at a maximum of 12 inch in each direction.

The work performed for concrete collars will not be measured or paid for directly, but will be subsidiary to pertinent Items.

The use of precast Type II safety end treatments with integrally cast riprap aprons is allowed as approved. All safety end treatments shall include riprap to the dimensions shown on PSET-RR. This riprap shall be subsidiary to Item 467.

Flowable backfill will be used for placing multiple safety end treatments when the Contractor elects to use precast safety end treatments. The work will be subsidiary to Item 467.

ITEM 496

The structure(s) to be removed have surface coatings which may contain hazardous materials. Provide for the safety and health of employees and abide by all OSHA Standards and Regulations.

Coordinate and identify the locations where the structure(s) will be cut at least 30 days prior to the demolition of the structure(s). If the surface coatings contain hazardous materials, the Department will arrange by separate Contract for the removal of a 4 inch wide strip around bearing attachments, at the anchor bolts, and as approved. Provide traffic control for the paint removal operations. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Notify the Engineer no later than 20 calendar days prior to the demolition of the structure(s) for coordination with the Texas Department of State Health Services.

Provide for approval a method of removal to prevent any materials from falling into water or traffic. The method used and work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

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Concrete pipe and boxes to be removed will be deemed not salvageable and will remain the property of the Contractor.

ITEM 500

"Materials on Hand" payments are not considered when determining partial payments.

ITEM 502

Furnish additional barricades, signs, and traffic handling as directed. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Traffic control for daytime lane closures shall be in accordance with TCP standards.

When advanced warning flashing arrow panels are specified, furnish one (1) standby unit in good condition at the job site for immediate use.

The Contractor's Responsible Person (CRP) or his representative(s) shall be located within one hour of traveling time to the project site. The Contractor shall notify the Engineer in writing of the name, physical address, and telephone number of this employee or these employees. The Engineer shall furnish this information to local law enforcement officials.

Maintain traffic control devices by taking corrective action as soon as possible. Complete corrective action within 48 hours of written notification regardless of the day of the week involved unless otherwise directed.

Provide a positive means of communication between flaggers unless otherwise approved.

Attach stop/slow paddle to a staff with a minimum length of 6 feet to the bottom of the sign.

The use of a pilot vehicle in conjunction with flaggers will be permitted. If used, provide positive and unrestricted communication between the driver of the pilot vehicle and the flaggers. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Two off-duty Police Officers will be utilized for traffic control handling during traffic control shifts.

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The Contractor Force Account "Safety Contingency" that has been established for this project is intended to be utilized for work zone enhancements, to improve the effectiveness of the Traffic Control Plan, that could not be foreseen in the project planning and design stage. These enhancements will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent traffic management reviews on the project. The Engineer may choose to use existing bid items if it does not slow the implementation of enhancement.

ITEM 504

Apply for and secure permits necessary for the buildings, and pay all utility meter deposits and service bills. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Provide two (2) sets of keys for all facilities, which include but are not limited to the field office and/or laboratory.

Maintain all mechanical, electrical and plumbing facilities at all times.

Provide one (1) Type C Structure (Field Office). This field office shall be for TxDOT use only and shall be a separate structure from the Contractor's facilities.

Furnish and install adequate equipment, outlets, lighting, air conditioning, heating and ventilation as approved. Arrange and install outlets as directed with no less than one (1) outlet per wall. Portable toilets will not be allowed.

Provide two (2) standard size office desks, two (2) office chairs, one (1) drafting table, one (1) drafting stool, one (1) bookcase, and one (1) filing cabinet as approved. Provide solar screens, blinds, or shades.

Provide janitorial services weekly.

Provide one (1) phone line and two (2) phones. Submit a copy of the monthly phone bill for review to monitor phone usage. A cell phone will not be allowed unless approved.

Provide a paper copier and facsimile.

Provide one (1) Type D Structure (Asphalt Mix Control Laboratory). This laboratory shall be for TxDOT use only and shall be a separate structure from the Contractor's facilities.

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Furnish and install adequate equipment, outlets, lighting, air conditioning, heating and ventilation as approved. Arrange and install outlets as directed with no less than 1 outlet per wall. Portable toilets will not be allowed.

Provide two (2) standard size office desks, two (2) office chairs, one (1) drafting table, one (1) drafting stool, one (1) bookcase, and one (1) filing cabinet as approved. Provide solar screens, blinds, or shades.

Provide janitorial services as needed.

Provide one (1) phone line and two (2) phones. Submit a copy of the monthly phone bill for review to monitor phone usage. A cell phone will not be allowed unless approved.

Provide a paper copier and facsimile.

Provide hot water or a hot water dispenser capable of generating one (1) gallon of water at 140 degrees Fahrenheit with acceptable water pressure.

Use support blocks for stability and tied down portable structures according to applicable zoning requirements or as directed.

Provide Safety Equipment as follows:

- (1) ONE EYE WASH STATION
- (2) ONE FIRE EXTINGUISHER
- (3) ONE FIRST AID KIT

Provide doors with a minimum width of 36 inches and 80 inches in height. Secure all exterior openings with bars.

Provide electrical service for the asphalt content by Ignition Method.

ITEM 529

Construct an expansion joint at a depth equal to the depth of the curb, gutter, and combined curb and gutter every 40 feet. Construct a tooled joint every 10 feet. When sidewalks are constructed next to curb or curb and gutter, place sidewalk expansion joints at the same location as the curb and gutter expansion joints.

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ITEM 530

Replace existing driveways not shown on the plans when directed. The work performed will be measured or paid for by Item 530, "Driveways".

If conditions warrant, driveway locations, widths, or lengths may be adjusted as directed.

ITEM 531

Reinforce sidewalks with 4 x 4 – W2.9 x W2.9 welded wire fabric or with No. 3 reinforcing bars spaced at a maximum of 12 inch in each direction unless otherwise shown.

Construct an expansion joint at a depth equal to the depth of the sidewalk every 40 feet. Construct a tooled joint every 5 feet. When sidewalks are constructed next to curb or curb and gutter, place sidewalk expansion joints at the same location as the curb and gutter expansion joints.

Provide terracotta, truncated dome pattern detectible warning materials for the curb ramp detection zone. Mixing of detectable warning materials is not permitted.

Sidewalks will be doveled into inlets and manholes.

ITEM 540

Complete each location during the working day. No exposed bridge rail or guard fence ends will be permitted at the end of the working day or unattended during the working day unless approved by the Engineer.

Mixing of wood post types and shapes will not be permitted at the same location.

Type II Galvanization coatings will be used.

ITEM 542

Disassemble, deliver and neatly stack salvageable materials at one of the following locations:

East Nueces Maintenance – 844 South Padre Island Drive (Corpus Christi, TX)

West Nueces Maintenance – 1750 US 77 South (Robstown, TX)

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The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

ITEM 545

All crash cushion attenuators will require a foundation pad as described on the crash cushion attenuator selection guide and corresponding standards. All pads (including installing, moving, and removing) will be subsidiary to Item 545.

Furnish and install cylinder covers for all REACT 350's. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Contractor will retain ownership of temporary crash cushion attenuators (work zone) at the end of the contract.

ITEM 560

Coordinate with the local United States Postal Service to mark the location of the temporary mailboxes. Permanent mailbox locations may be adjusted as directed.

ITEM 585

Use Surface Test Type B and Pay Adjustment Schedule 1 to evaluate ride quality of the travel lanes in accordance with Item 585, "Ride Quality for Pavement Surfaces."

Use latest version of approved Ride Quality Software.

For QC Testing, provide inertial profiler results the same working day after paving.

For QA Testing, provide the Engineer the opportunity to witness the testing. Provide a seat for the Engineer in the test vehicle or arrange for the Engineer to follow the test vehicle if requested.

ITEM 610

Fabricate steel roadway illumination poles in accordance with the latest version of the Roadway Illumination Standards. Poles fabricated according to the latest version of the standards require no shop drawings. Alternate designs to the latest version of the standards or the use of aluminum to fabricate poles will require the submission of shop drawings electronically.

For instructions on submitting shop drawings electronically, go to the TxDOT home page, Business with TxDOT, Bridge information, Shop drawings. File is titled: Guide to Electronic Shop Drawing Submittal.

Limitations on Use of the RIP(1)-RIP(4)-11 Standards

The Roadway Illumination Pole (RIP(1)-RIP(4)-11) standard details were developed for installations in locations where the 3-second gust basic maximum wind speed is 110 mph, and where the elevation of the base of the pole is less than (i.e. not more than) 25' above the elevation of surrounding terrain, in accordance with the "AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals," 4th Edition (2001) (AASHTO Design Specifications). For poles to be installed in regions where the maximum basic wind speed exceeds 110 mph or to be mounted more than 25' above the surrounding terrain, the contractor shall provide poles meeting the following requirements:

- A. **Submittals.** Following the electronic shop drawing submittal process (see ftp://ftp.dot.state.tx.us/pub/txdot-info/library/pubs/bus/bridge/e_submit_guide.pdf), the contractor shall submit to the Engineer, for approval, fabrication drawings and calculations for the poles. The drawings and calculations shall be sealed by a Texas registered or licensed professional engineer (P.E.).
- B. **Luminaire Structural Support Requirements.** Lighting poles, arms, and anchor bolt assemblies shall have a 25 year design life to safely resist dead loads, ice loads and the required basic wind speeds at the location of installation in accordance with the current edition of the AASHTO Design Specifications. For transformer base poles, the fabricator shall include transformer base and connecting hardware in calculations and shop drawing submittals. All transformer bases shall have been structurally tested to resist the theoretical plastic moment capacity of the pole. Certification of the plastic moment load test and FHWA breakaway requirement test of the model of base being furnished shall be submitted with the shop drawings. Shop drawings shall show breakaway base model number, and manufacturer's name and logo. Manufacturer's shop drawings shall include the ASTM designations for all materials to be used.

ITEM 618

Seal all conduits terminating in ground boxes and pole foundations with a sealant made of polyurethane or equivalent that will cure in the presence of moisture. Ensure sealant is suitable for sealing ends with electrical conductor extending past the ends of the conduit. Inject the sealant a minimum of 3 inches and a maximum of 5 inches into the conduit.

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Where PVC, duct cable, and HDPE conduit 1" and larger is allowed and installed as per TxDOT standards, provide a PVC elbow in place of the galvanized rigid metal elbow required by the Electrical Detail standards. Ensure the PVC elbow is of the same schedule rating as the conduit to which it is connected. Ensure only a flat, high tensile strength polyester fiber pull tape is used for pulling conductors through the PVC conduit system.

Provide polymer concrete junction boxes for concrete traffic barrier. The work will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Provide wide sweep conduit elbows.

Jacking of conduit will not be permitted.

Use materials from prequalified material producers list as shown on the Texas Department of Transportation (TxDOT) materials producers list. Category is "Roadway Illumination and Electrical Supplies."

ITEM 620

Bond grounding conductors that share the same conduit, junction box, ground box, or structure together at every accessible point.

For both transformer and shoe-base type illumination poles, provide double-pole breakaway fuse holder as shown on the Texas Department of Transportation (TxDOT) materials producers list. Category is "Roadway Illumination and Electrical Supplies". Fuse holder is shown on list under Items 610 & 620. Provide 10 amp time delay fuses.

ITEM 628

Provide a meter box for all electrical services.

ITEM 644

Use crash worthy supports as shown on the BC sheets, the CWZTCD, or as directed for signs relocated using temporary supports. The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

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Disassemble, deliver and neatly stack salvageable materials at one of the following locations:

East Nueces Maintenance – 844 South Padre Island Drive (Corpus Christi, TX)

West Nueces Maintenance – 1750 US 77 South (Robstown, TX)

The work performed will not be measured or paid for directly, but will be subsidiary to pertinent Items.

All sign and housing components will be galvanized.

ITEM 662

Use temporary flexible-reflective roadway marker tabs at the beginning and end of no passing zones as shown on the TCP (7-1)-98 for seal coats and WZ(STPM)-03 for hot mix overlays.

ITEM 677

Eliminate all conflicting pavement markings as work progresses or as directed.

Use Method A for asphaltic pavements. Use a PB Grade 4 aggregate at an application rate of 1 cy/130 sy and asphalt AC-15P or AC20-5TR at an application rate of 0.39 Gal/sy.

ITEM 680

Do not activate traffic signals without approval. For new signal installations, notify the Engineer two (2) weeks in advance of the activation date for advertisement purposes and place the signals on flash as directed.

Ensure controller assemblies are compatible with existing closed loop traffic signal system.

ITEM 685

Provide solar powered flasher controller assemblies capable of a 24-hr flash with dual indications.

The work to connection the flasher assemblies to the signal heads will not be measured or paid for directly, but will be subsidiary to pertinent Items.

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Provide single-pole breakaway disconnects. Use Bussman HEBW, Littlefuse LEB, Ferraz-Shawmut FEB, or equal on ungrounded conductors and grounded conductors. Ensure the disconnects have a white colored marking and a permanently installed solid neutral.

ITEM 1122

Designate in writing a Contractor Responsible Person (CRP) for implementing, maintaining, and reviewing environmental requirements.

ITEM 3268

Provide aggregates with a minimum surface aggregate classification (SAC) of "B" unless otherwise shown. SAC requirements apply to aggregates used on all final roadway surfaces, including shoulders.

Use of Contractor-owned RAP including HMA plant waste will be permitted.

Department-owned RAP generated through required work on the Contract is available for the Contractor's use.

Use crushed gravel screenings with or in lieu of stone screenings.

Use a cut-off chute when placing hot-mix asphalt on narrow width locations unless approved.

The laboratory-molded density for this project will be 97% in accordance with test method TEX-207-F for the Type B & D HMAC.

Construct longitudinal joints with a joint maker providing a maximum one (1) inch vertical edge (1/2 inch desirable) with an adjacent 6:1 taper. Construct the outside edge with a 6:1 taper or backfill within the same day.

Ramp up with HMAC at every driveway and turnout. This will be subsidiary to pertinent bid items.

Unless otherwise approved by the Engineer, a tack coat will be placed in accordance to 3268.4.G.2 Tack Coat. RC 250 will be used as tack coat. This work will not be paid for directly but will be subsidiary to Item 3268.

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ITEM 6834

Furnish the portable changeable message signs displaying the correct message at least seven (7) days prior to beginning work or as directed.

The Contractor's Responsible Person (CRP) will maintain full control of messages at all times.

The Engineer will provide the sign message text to use at each sign.

Provide cellular phone connection.

A minimum of two (2) PCMS will be required. However, additional units may be necessary depending on the work in progress.

Standby time will not be measured or paid for directly, but will be subsidiary to pertinent Items.

Portable changeable message signs may be moved and message changed at any time as deemed necessary by the Engineer. This will be considered subsidiary to Item 6834.

ITEM 8251

Establish and mark the location of existing standard pavement markings including but not limited to edge lines, transitions, passing and no passing zones, gore areas, etc.

Place pavement markings no later than 14 calendar days after the placement of the surface. When inclement weather prohibits placement of the markings, the 14-day period may be extended until weather permits proper application.

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UNIT WEIGHT ESTIMATES

EXISTING SUBGRADE ----- 110 LBS/CF
ITEM 247 – FL BS (CMP IN PLC) (TY A GR 5)(FNAL POS) ----- 136 LBS/CF
ITEM 3268 – (1.5") D-GR HMA TY-D SAC-B PG76-22-----165 LBS/SY
ITEM 3268 – (5") D-GR HMA TY-B SAC-B PG70-22-----550 LBS/SY

COMPACTION REQUIREMENTS

ITEM 132 – EMBANKMENT (FINAL)(DENS CONT) (TY C)
PLASTICITY INDEX ----- 10 MIN / 40 MAX
DENSITY ----- AS SHOWN ON
TABLE 2 OF ITEM 132
LIFTS----- ALL

COMPACTION REQUIREMENTS FOR BASE COURSE

ITEM 247—FL BS (CMP IN PLC)(TY A GR 5) (FNAL POS)
DENSITY ----- 100% MIN
LIFTS----- ALL

PRIME COAT

ASPHALT, TYPE -----MC-30
AVERAGE ASPHALT RATE (GAL/SY) -----0.20

SURFACE TREATMENT DATA

ONE COURSE UNDERSEAL OR SURFACE TREATMENT
ASPHALT TYPE -----ASPH (AC-15P OR AC20-5TR)
ASPHALT RATE (GAL/SY) -----0.35 – 0.43
AVERAGE ASPHALT RATE (GAL/SY)----- 0.390
AGGREGATE RATE (CY/SY)-----1/110
AGGREGATE TYPE ----- PB
AGGREGATE GRADE----- 4 or 4S SAC B